

* * * * * STN Columbus * *
* * * * *

FILE 'HOME' ENTERED AT 15:06:48 ON 31 JUL 2002

=> file ca
COST IN U.S. DOLLARS
SINCE FILE TOTAL

ENTRY SESSION
FULL ESTIMATED COST
0.21 0.21

FILE 'CA' ENTERED AT 15:07:04 ON 31 JUL 2002

=> s bacillus(10a)10438
69019 BACILLUS
10586 BACILLI
144 BACILLIS
77131 BACILLUS
(BACILLUS OR BACILLI OR
BACILLIS)

9 10438
L1 0 BACILLUS(10A)10438

=> s bacillus(10a)40484
69019 BACILLUS
10586 BACILLI
144 BACILLIS
77131 BACILLUS
(BACILLUS OR BACILLI OR
BACILLIS)

1 40484
L2 0 BACILLUS(10A)40484

=> s bacillus(l)40484
69019 BACILLUS
10586 BACILLI
144 BACILLIS
77131 BACILLUS
(BACILLUS OR BACILLI OR
BACILLIS)

1 40484
L3 0 BACILLUS(L)40484

=> index bioscience
FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
COST IN U.S. DOLLARS
SINCE FILE TOTAL

ENTRY SESSION
FULL ESTIMATED COST
10.44 10.65

INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS,
AGRICOLA, ANABSTR, AQUASCI,
BIOBUSINESS, BIOCOMMERCE, BIOSIS,
BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,
CANTEPLIT, CAILUS, CEAPA YTB, GEN, TIN
JANFSCI, CROPB, CROPU, EDPB,

search error messages that display as 0* with
SET DETAIL OFF.

=> s bacillus(10a)40484
2 FILE BIOTECHABS
2 FILE BIOTECHDS
1 FILE DGENE
36 FILES SEARCHED...
1 FILE IFIPAT
7 FILE USPATFULL
1 FILE WPIDS
1 FILE WPINDEX

7 FILES HAVE ONE OR MORE ANSWERS, 63
FILES SEARCHED IN SIMINDEX

L4 QUE BACILLUS(10A) 40484

=> s bacillus(10a)10438
48 FILES SEARCHED...
1 FILE USPATFULL

1 FILES HAVE ONE OR MORE ANSWERS, 63
FILES SEARCHED IN SIMINDEX

L5 QUE BACILLUS(10A) 10438

=> s bacillus(l)10438
1 FILE BIOSIS
7 FILE GENBANK
1 FILE JICST EPLUS
1 FILE MEDLINE
49 FILES SEARCHED...
1 FILE TOXCENTER
6 FILE USPATFULL

6 FILES HAVE ONE OR MORE ANSWERS, 63
FILES SEARCHED IN SIMINDEX

L6 QUE BACILLUS(L) 10438

=> d rank
F1 7 GENBANK
F2 6 USPATFULL
F3 1 BIOSIS
F4 1 JICST EPLUS
F5 1 MEDLINE
F6 1 TOXCENTER

=> file f3 6
COST IN U.S. DOLLARS
SINCE FILE TOTAL

ENTRY SESSION
FULL ESTIMATED COST
2.12 12.77

FILE 'BIOSIS' ENTERED AT 15:10:55 ON 31 JUL
2002
COPYRIGHT (C) 2002 BIOLOGICAL ABSTRACTS
IN 1 F

FILE 'ADISALERTS' ENTERED AT 15:11:00 ON 31

FILE 'TOXCENTER' ENTERED AT 15:10:55 ON 31 JUL
2002
COPYRIGHT (C) 2002 ACS

=> s 16

L6 4 L6

=> dup rem 17

PROCESSING COMPLETED FOR L7

L8 1 DUP REM L7 (3 DUPLICATES
REMOVED)

ANSWER '1' FROM FILE BIOSIS

=> d bib abs

L8 ANSWER 1 OF 1 BIOSIS COPYRIGHT 2002
BIOLOGICAL ABSTRACTS INC.DUPLICATE 1
AN 1999:443776 BIOSIS
DN PREV199900443776
TI Role of tyrosine 265 of alanine racemase
from *Bacillus stearothermophilus*.
AU Watanabe, Akira; Kurokawa, Yoichi;
Yoshimura, Tohru; Esaki, Nobuyoshi (1)
CS (1) Institute for Chemical Research,
Kyoto University, Gokasho, Uji,
Kyoto, 611-0011 Japan.
SO Journal of Biochemistry (Tokyo), (June,
1999) Vol. 125, No. 6, pp.
987-990.
ISSN: 0021-924X.
DT Article
LA English
SI English
AB Tyrosine 265 (Y265) of ****Bacillus****
stearothermophilus is believed
to serve as a catalytic base specific to
the L-enantiomer of a substrate
amino acid by removing (or returning) an
alpha-hydrogen from (or to) the
isomer on the basis of the X-ray
structure of the enzyme (Stamper, C.G.,
Morollo, A.A., and Ringe, D. (1998)
Biochemistry 37, ***10438***
-10443). We found that the Y265fwdarwAla
mutant (Y265A) enzyme is
virtually inactive as a catalyst for
alanine racemization. We examined the
role of Y265 further with beta-
chloroalanine as a substrate with the
expectation that the Y265A mutant only
catalyzes the alpha,beta
elimination of the D enantiomer of beta-
chloroalanine. However,
L beta-chloroalanine also served as a
substrate; this enantiomer was
rather better as a substrate than its
antipode. Moreover, the mutant
enzyme was as equally active as the wild
type enzyme in the elimination
reaction. These findings indicate that
Y265 is essential for alanine
racemization but not for beta-
chloroalanine elimination.

FULL ESTIMATED COST
4.27 17.34

INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS,
AGRICOLA, ANASTR, AQUASCI,
BIOBUSINESS, BIOCOMMERCE, BIOSIS,
BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,
CANCERLIT, CASLUS, CEABA VTB, CEN, CIN,
CONFSCI, CROPE, CHOPU, EDBF,
DDFJ, DGENE, DRUGB, DRUGLAUNCH,
DRUGMONOG2, ...'
ENTERED AT 15:11:43 ON 31 JUL 2002

63 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term
postings or to view
search error messages that display as 0* with
SET DETAIL OFF.

=> s (ncib or ncimb) (10a) 10438
48 FILES SEARCHED...
1 FILE USPATFULL

1 FILES HAVE ONE OR MORE ANSWERS, 63
FILES SEARCHED IN STNINDEX

L9 QUE (NCIB OR NCIMB) (10A) 10438

=> s (ncib or ncimb) (1) 10438 not 19
36 FILES SEARCHED...

0 FILES HAVE ONE OR MORE ANSWERS, 63
FILES SEARCHED IN STNINDEX

L10 QUE (NCIB OR NCIMB) (L) 10438 NOT L9

=> file stnguide
COST IN U.S. DOLLARS
SINCE FILE TOTAL

ENTRY SESSION
FULL ESTIMATED COST
2 12 19.16

FILE 'STNGUIDE' ENTERED AT 15:14:17 ON 31 JUL
2002
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER
AGREEMENT
COPYRIGHT (C) 1991 AMERICAN CHEMICAL SOCIETY,
JAPAN SCIENCE
AND TECHNOLOGY CORPORATION, AND
FACHINFORMATIONSENTERUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jul 31, 2002 15:14:17

=> index bioscience
FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
COST IN U.S. DOLLARS
SINCE FILE TOTAL

ENTRY SESSION
FULL ESTIMATED COST

CANCERLIT, CAPLUS, CEABA VTB, GEN, CIN,
CONFSCI, CROPB, CROPU, DDFB,
DDFU, DGENE, DRUGB, DRUGLAUNCH,
DRUGMONOG2, ...'
ENTERED AT 15:17:03 ON 31 JUL 2002

63 FILES IN THE FILE LIST IN STINDEX

Enter SET DETAIL ON to see search term
postings or to view
search error messages that display as 0* with
SET DETAIL OFF.

=> s cbs 102449
49 FILES SEARCHED...

0 FILES HAVE ONE OR MORE ANSWERS, 63
FILES SEARCHED IN STINDEX

L11 QUE CBS 102449

=> s cbs 102448
53 FILES SEARCHED

0 FILES HAVE ONE OR MORE ANSWERS, 63
FILES SEARCHED IN STINDEX

L12 QUE CBS 102448

=> s atcc 48272
3 FILE AGRICOLA
2 FILE BIOBUSINESS
7 FILE BIOSIS
13 FILE BIOTECHABS
13 FILE BIOTECHDS
6 FILE BIOTECHNO
12 FILE CAPLUS

<-----User Break----->

u

=> s atcc 48272 and protease
33 FILES SEARCHED...
1 FILE USPATFULL
1 FILE WPIDS
1 FILE WPINDEX

3 FILES HAVE ONE OR MORE ANSWERS, 63
FILES SEARCHED IN STINDEX

L13 QUE ATCC 48272 AND PROTEASE

file hits
COST IN U.S. DOLLARS
SINCE FILE TOTAL

ENTRY SESSION
FULL ESTIMATED COST
11.13 30.59

FILE 'USPATFULL' ENTERED AT 15:29:36 ON 31 JUL
2002

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CHEMICAL SOCIETY ACS

FILE 'WPIDS' ENTERED AT 15:29:36 ON 31 JUL 2002

=> dup rem 114
PROCESSING COMPLETED FOR L14
L15 2 DUP REM L14 (0 DUPLICATES
REMOVED)

ANSWER '1' FROM FILE USPATFULL
ANSWER '2' FROM FILE WPIDS

=> d bib abs 1-2

L15 ANSWER 1 OF 2 USPATFULL
AN 1999:33788 USPATFULL
TI Method for influencing .beta. lactam
antibiotic production and for
isolation of large quantities of ACV
synthetase
IN Veenstra, Annemarie, Nieuw Vennepe,
Netherlands
Martin, Juan Francisco, Leon, Spain
Garcia, Bruno Diez, San Sebastian,
Spain
Gutierrez, Santiago, Leon, Spain
Barredo, Jose Luis, Burgos, Spain
Montenegro Prieto, Eduardo, Leon, Spain
Von Doehren, Hans, Berlin, Germany,
Federal Republic of
Palissa, Harriet, Berlin, Germany,
Federal Republic of
Van Liempt, Henk, Berlin, Germany,
Federal Republic of
PA Gist-Brocades, N.V., Delft, Netherlands
(non-U.S. corporation)
PI US 5882879 19990316
AI US 1994-222617 19940404 (8)
RLI Continuation-in-part of Ser. No. US
1991-658398, filed on 19 Feb 1991,
now abandoned
PFAI EP 1990-200475 19900228
EP 1990-200488 19900228
EP 1990-201768 19900702
EP 1990-202628 19901003
DT Utility
FS Granted
EXNAM Primary Examiner: Martinell, James
LEEP McDonnell Boehnen Hulbert & Berghoff
CLMN Number of Claims: 30
ECL Exemplary Claim: 1
DFWN 32 Drawing Figure(s); 32 Drawing
Page(s)
IN.CNT 5174
CIS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Novel methods and compositions are
provided for the enhanced production
of .beta. lactam antibiotics. The
process is exemplified by the
production of penicillin. In addition,
the P. chrysogenum and A.
chrysogenum .delta. (L .alpha.
aminoadipyl) L cysteinyl D valine
synthetase genes have been isolated and
sequenced. Also methods are
provided for the production of .delta.
L .alpha. aminoadipyl L
cysteinyl D valine synthetase.

FILE 'WPINDEX' ENTERED AT 15:29:36 ON 31 JUL 2002
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CHEMICAL SOCIETY ACS

DNC C1001-009529
 TI Microbial production of cephalosporin C
 or its derivatives, useful as
 intermediates for antibiotics, in cells
 transformed with a gene encoding
 CPC (cephalosporin C) acetylhydrolase.
 DC B 2 D16
 IN BARFEDO FUENTE, J L; CAMPOY GARCIA, S;
 CASQUEIRO BLANCO, F J; DIEZ GARCIA,
 B. FIERFO FIERRO, F; GUTIERREZ MARTIN, S;
 MARTIN MARTIN, J F, VELASCO
 ALVAREZ, J
 PA (ANTI) ANTIBIOTICOS SAU
 CYC 93
 PI WO 2000061767 A1 20001019 200104)* ES
 63p

FW AT BE CH CY DE DK EA ES FI FR GB
 GH GM GR IE IT KE LS LU MC MW NO
 CA PT SD SE SL SZ TE UG ZW
 W AE AG AL AM AT AU AZ BA BB BG BR
 BY CA CH CN CR CU CZ DE DK DM EE
 EE ES FI GB GD GE GH GM HR HU ID
 IL IN IS JP KE KG KP KR KZ LC LF
 LR LS LT LU LV MA MD MG MK MN MW
 MX NO NZ PL PT RO RU SD SE SG SI
 SK SL TJ TM TR TT TZ UA UG US UZ
 VN YU ZA ZW

AN 2000035595 A 20001114 200108)
 ES 2156812 A1 20010716 (200147)
 EP 1170369 A1 20020109 (200205) EN
 R. AL AT BE CH CY DE DK ES FI FR GB
 GR IE IT LI LT LU LV MC MK NL PT
 RO SE SI
 ES 2156812 B1 20020201 (200225)
 ADT WO 2000061767 A1 WO 2000-ES126 20000407;
 AU 2000035595 A AU 2000-35595
 20000407; ES 2156812 A1 ES 1999-731
 19990409, EP 1170369 A1 EP 2000 914189
 20000407, WO 2000-ES126 20000407; ES
 2156812 B1 ES 1999-731 19990409
 FDT AN 2000035595 A Based on WO 200061767; EP
 1170369 A1 Based on WO 200061767
 PRAI ES 1999-731 19990409
 AN 2001-031587 [04] WPIDS
 AB WO 200061767 A UPAB: 20010118
 NOVELTY Production of cephalosporin C
 (CPC) (I), or its deacetylated

derivatives and/or their synthesis
 intermediates, comprising growing a
 microbial host transformed with a DNA
 sequence that includes the cahB gene
 encoding A. chrysogenum (II) under
 conditions where it is either expressed
 or inactivated, is new.
 DETAILED DESCRIPTION INDEPENDENT
 CLAIMS are also included for the
 following:
 (a) a DNA sequence (N1) of 1621 bp
 given in the specification,
 representing the cahB gene of Acremonium
 chrysogenum;
 b) nucleotide sequences (III) that
 hybridize with (N1);

of the endogenous gene).

USE (II) is used for removal of
 acetyl groups, especially from the
 3'-carbon of CPC or from 7
 aminocephalosporanic acid, to give
 deacetylated

products useful as intermediates for
 cephalosporin antibiotics.

ADVANTAGE Inactivation of the gene
 that expresses (II) increases
 production of cephalosporins by A.
 chrysogenum.

Dwg.0/12

= s atcc 20338 and protease
 L16 (ATCC 20338 AND PROTEASE

= index bioscience
 FILE 'DRUGMONO3' ACCESS NOT AUTHORIZED
 COST IN U.S. DOLLARS
 SINCE FILE TOTAL

ENTRY SESSION
 FULL ESTIMATED COST
 9 17 39.76

INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS,
 AGRICOLA, ANABST, AQUASCI,
 BIOBUSINESS, BIOCOMMERCE, BIOSIS,
 BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,
 CANCEFLIT, CAPLUS, CEABA-VTB, CEN, CIN,
 CONFSCI, CROPB, CROPU, DDFB,
 DDFU, EGENE, DRUGB, DRUGLAUNCH,
 DRUGMONO2, . . .
 ENTERED AT 15 30:39 ON 31 JUL 2002

63 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term
 postings or to view
 search error messages that display as 0* with
 SET DETAIL OFF.

= s atcc 20338 and protease
 34 FILES SEARCHED...
 0* FILE WFINDEX

0 FILES HAVE ONE OR MORE ANSWERS, 63
 FILES SEARCHED IN STNINDEX

L16 QUE ATCC 20338 AND PROTEASE

= s atcc 20338 and protease
 1 FILE GENBANK
 45 FILES SEARCHED...
 2 FILE USPATFULL
 0* FILE WFINDEX

2 FILES HAVE ONE OR MORE ANSWERS, 63
 FILES SEARCHED IN STNINDEX

L16 QUE 20338 AND PROTEASE

FULL ESTIMATED COST
31.80 71.56

STN INTERNATIONAL LOGOFF AT 16:06:20 ON 31 JUL
2002